

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 02279530
PUBLICATION DATE : 15-11-90

APPLICATION DATE : 19-04-89
APPLICATION NUMBER : 01099356

APPLICANT : NIPPON SHEET GLASS CO LTD;

INVENTOR : MIZUNO TOSHIAKI;

INT.CL. : C03B 19/12

TITLE : PRODUCTION OF PLATE-GLASS PRODUCT

ABSTRACT : PURPOSE: To easily and effectively obtain a plate glass without deformation such as warpage at the time of producing the plate glass from a raw soln. contg. an organometallic compd. by the sol-gel method means of pressing the gel in the sintering stage.

CONSTITUTION: The plate glass is produced from a soln. contg. an organometallic compd. such as methyl orthosilicate by the sol-gel method. In this case, the gel is pressed between the pressing surfaces of two pressers when the gel is sintered to obtain the plate-glass product free of warpage. The pressure for pressing is preferably controlled to 1×10^2 to 1×10^4 Pa, and the pressing time is preferably controlled to 5 to 24 hr. In addition, the temp. when the pressure is exerted is preferably controlled to a temp. 500°C lower than the optimum maximum temp. in the sintering stage. The plate surface is most conveniently pressed by placing a refractory weight such as firebrick on the gel.

COPYRIGHT: (C)1990,JPO&Japio